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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Westfield
Westfield Executive Park
53 Southampton Road
Westfield, MA 01085
Tel: (413)572-4000

Reviewed for completeness of parameters ordered:
6/15/11

TestAmerica Job ID: 360-34011-1
Client Project/Site: Olin Chemical SemiAnnual Groundwater

For:
Olin Corporation
PO BOX 248
Charleston, Tennessee 37310-0248

Attn: Mr. James Cashwell

Authorized for release by:
06/09/2011 10:16:36 AM
Joe Chimi
Report Production Representative
joe.chimi@testamericainc.com

Designee for

Becky Mason
Project Manager II
becky.mason@testamericainc.com

Table of Contents

Job ID: 360-34011-1

Laboratory: TestAmerica Westfield

Narrative

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/25/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.2 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2 C of the required temperature or method specified range. For samples with a specified temperature of 4 C, samples with a temperature ranging from just above freezing temperature of water to 6 C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

DISSOLVED METALS

Samples OC-GW-CA1 (360-34011-1) and OC-GW-42S (360-34011-2) were analyzed for dissolved metals in accordance with EPA SW-846 Method 6010B. The samples were analyzed on 05/26/2011.

At the request of the client, an abbreviated/modified MCP analyte list was reported for this job.

No difficulties were encountered during the dissolved metals analyses.

All quality control parameters were within the acceptance limits.

ANIONS

Samples OC-GW-CA1 (360-34011-1) and OC-GW-42S (360-34011-2) were analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 05/27/2011.

Samples OC-GW-CA1 (360-34011-1)[10X] and OC-GW-42S (360-34011-2)[10X] required dilution prior to analysis due to high target concentration. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analyses.

All quality control parameters were within the acceptance limits.

AMMONIA

Samples OC-GW-CA1 (360-34011-1) and OC-GW-42S (360-34011-2) were analyzed for ammonia in accordance with Lachat 107-06-1B. The samples were prepared on 06/01/2011 and analyzed on 06/07/2011.

No difficulties were encountered during the ammonia analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Samples OC-GW-CA1 (360-34011-1) and OC-GW-42S (360-34011-2) were analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 05/27/2011.

Job ID: 360-34011-1 (Continued)

Laboratory: TestAmerica Westfield (Continued)

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

MassDEP Analytical Protocol Certification Form

Laboratory Name: **TestAmerica Westfield** Project #: **360-34011-1**

Project Location: RTN:

This form provides certifications for the following data set: list Laboratory Sample ID Number(s):

360-34011-(1-2)

Matrices: [X] Groundwater/Surface Water [ ] Soil/Sediment [ ] Drinking Water [ ] Air [ ] Other:

CAM Protocols (check all that apply below):

8260 VOC CAM II A [ ]	7470/7471 Hg CAM III B [ ]	Mass DEP VPH CAM IV A [ ]	8081 Pesticides CAM V B [ ]	7196 Hex Cr CAM VI B [ ]	Mass DEP APH CAM IX A [ ]
8270 SVOC CAM II B [ ]	7010 Metals CAM III C [ ]	Mass DEP EPH CAM IV B [ ]	8151 Herbicides CAM V C [ ]	8330 Explosives CAM VIII A [ ]	TO-15 VOC CAM IX B [ ]
6010 Metals CAM III A [X]	6020 Metals CAM III D [ ]	8082 PCB CAM V A [ ]	9014 Total Cyanide/PAC CAM VI A [ ]	332.0 Perchlorate CAM VIII B [ ]	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding time.	[X] Yes [ ] No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	[X] Yes [ ] No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	[X] Yes [ ] No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	[X] Yes [ ] No
E	a. VPH, EPH and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	[ ] Yes [ ] No [ ] Yes [ ] No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	[X] Yes [ ] No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

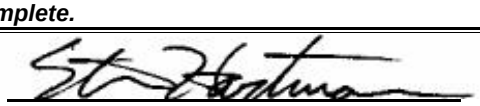
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	[X] Yes [ ] No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WCS-07-350**

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	[X] Yes [ ] No
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s) ?	[ ] Yes [X] No

[1] All negative responses must be addressed in an attached laboratory narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Steven C. Hartmann Date: 6/9/11 10:12

This form has been electronically signed and approved

Detection Summary

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

Client Sample ID: OC-GW-CA1 — Lab Sample ID: 360-34011-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	22	J	100	12	ug/L	1		6010B	Dissolved
Chromium	5.0		5.0	0.65	ug/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	120		20	20	mg/L	10		300.0	Total/NA
Chloride	9.6		1.0	1.0	mg/L	1		300.0	Total/NA
Ammonia	3.7		0.10	0.10	mg/L	1		L107-06-1B	Total/NA
Specific Conductance	630		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

Client Sample ID: OC-GW-42S — Lab Sample ID: 360-34011-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aluminum	280		100	12	ug/L	1		6010B	Dissolved
Chromium	5.9		5.0	0.65	ug/L	1		6010B	Dissolved

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Sulfate	7.6		2.0	2.0	mg/L	1		300.0	Total/NA
Chloride	85		10	10	mg/L	10		300.0	Total/NA
Ammonia	2.2		0.10	0.10	mg/L	1		L107-06-1B	Total/NA
Specific Conductance	400		1.0	1.0	umhos/cm	1		SM 2510B	Total/NA

Method Summary

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

Method	Method Description	Protocol	Laboratory
6010B	Dissolved Metals	SW846	TAL WFD
300.0	Chloride & Sulfate	40CFR136A	TAL WFD
L107-06-1B	Nitrogen Ammonia	LACHAT	TAL WFD
SM 2510B	Conductivity, Specific Conductance	SM	TAL WFD

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
LACHAT = LACHAT

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Sample Summary

Client: Olin Corporation
TestAmerica Job ID: 360-34011-1
Project/Site: Olin Chemical SemiAnnual Groundwater

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
360-34011-1	OC-GW-CA1	Water	05/19/11 09:25	05/25/11 10:10
360-34011-2	OC-GW-42S	Water	05/23/11 16:45	05/25/11 10:10

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

Method: 6010B - Dissolved Metals - Dissolved

Client Sample ID: OC-GW-CA1
Date Collected: 05/19/11 09:25
Date Received: 05/25/11 10:10

Lab Sample ID: 360-34011-1
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	22	J	100	12	ug/L			05/26/11 17:54	1
Chromium	5.0		5.0	0.65	ug/L			05/26/11 17:54	1

Client Sample ID: OC-GW-42S
Date Collected: 05/23/11 16:45
Date Received: 05/25/11 10:10

Lab Sample ID: 360-34011-2
Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	280		100	12	ug/L			05/26/11 17:57	1
Chromium	5.9		5.0	0.65	ug/L			05/26/11 17:57	1

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

General Chemistry

Client Sample ID: OC-GW-CA1
Date Collected: 05/19/11 09:25
Date Received: 05/25/11 10:10

Lab Sample ID: 360-34011-1
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	120		20	20	mg/L			05/27/11 20:36	10
Chloride	9.6		1.0	1.0	mg/L			05/27/11 20:21	1
Ammonia	3.7		0.10	0.10	mg/L		06/01/11 14:37	06/07/11 15:20	1
Specific Conductance	630		1.0	1.0	umhos/cm			05/27/11 08:30	1

Client Sample ID: OC-GW-42S
Date Collected: 05/23/11 16:45
Date Received: 05/25/11 10:10

Lab Sample ID: 360-34011-2
Matrix: Water

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	7.6		2.0	2.0	mg/L			05/27/11 20:52	1
Chloride	85		10	10	mg/L			05/27/11 21:07	10
Ammonia	2.2		0.10	0.10	mg/L		06/01/11 14:37	06/07/11 15:21	1
Specific Conductance	400		1.0	1.0	umhos/cm			05/27/11 08:30	1

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

Metals

Analysis Batch: 74297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 360-74297/1	Lab Control Sample	Total/NA	Water	6010B	
MB 360-74297/2	Method Blank	Total/NA	Water	6010B	
LCSD 360-74297/5	Lab Control Sample Dup	Total/NA	Water	6010B	
360-34011-1	OC-GW-CA1	Dissolved	Water	6010B	
360-34011-2	OC-GW-42S	Dissolved	Water	6010B	

General Chemistry

Analysis Batch: 74320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-74320/1	Method Blank	Total/NA	Water	SM 2510B	
LCS 360-74320/2	Lab Control Sample	Total/NA	Water	SM 2510B	
360-34011-1	OC-GW-CA1	Total/NA	Water	SM 2510B	
360-34011-1 DU	OC-GW-CA1	Total/NA	Water	SM 2510B	
360-34011-2	OC-GW-42S	Total/NA	Water	SM 2510B	

Analysis Batch: 74418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-74418/3	Method Blank	Total/NA	Water	300.0	
LCS 360-74418/4	Lab Control Sample	Total/NA	Water	300.0	
360-34011-1	OC-GW-CA1	Total/NA	Water	300.0	
360-34011-1	OC-GW-CA1	Total/NA	Water	300.0	
360-34011-2	OC-GW-42S	Total/NA	Water	300.0	
360-34011-2	OC-GW-42S	Total/NA	Water	300.0	

Prep Batch: 74484

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-74484/1-A	Method Blank	Total/NA	Water	Distill/Ammonia	
LCS 360-74484/2-A	Lab Control Sample	Total/NA	Water	Distill/Ammonia	
360-34011-1	OC-GW-CA1	Total/NA	Water	Distill/Ammonia	
360-34011-2	OC-GW-42S	Total/NA	Water	Distill/Ammonia	

Analysis Batch: 74585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 360-74484/2-A	Lab Control Sample	Total/NA	Water	L107-06-1B	74484

Analysis Batch: 74846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 360-74484/1-A	Method Blank	Total/NA	Water	L107-06-1B	74484
360-34011-1	OC-GW-CA1	Total/NA	Water	L107-06-1B	74484
360-34011-2	OC-GW-42S	Total/NA	Water	L107-06-1B	74484

Method: 6010B - Dissolved Metals

Lab Sample ID: MB 360-74297/2
Matrix: Water
Analysis Batch: 74297

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	ND		100	12	ug/L			05/26/11 16:30	1
Chromium	ND		5.0	0.65	ug/L			05/26/11 16:30	1

Lab Sample ID: LCS 360-74297/1
Matrix: Water
Analysis Batch: 74297

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aluminum	5000	5250		ug/L		105	80 - 120
Chromium	1000	1050		ug/L		105	80 - 120

Lab Sample ID: LCSD 360-74297/5
Matrix: Water
Analysis Batch: 74297

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aluminum	5000	5160		ug/L		103	80 - 120	2	20
Chromium	1000	1030		ug/L		103	80 - 120	2	20

Method: 300.0 - Chloride & Sulfate

Lab Sample ID: MB 360-74418/3
Matrix: Water
Analysis Batch: 74418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		2.0	2.0	mg/L			05/27/11 15:49	1
Chloride	ND		1.0	1.0	mg/L			05/27/11 15:49	1

Lab Sample ID: LCS 360-74418/4
Matrix: Water
Analysis Batch: 74418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Sulfate	80.0	81.6		mg/L		102	85 - 115
Chloride	40.0	40.8		mg/L		102	85 - 115

Method: L107-06-1B - Nitrogen Ammonia

Lab Sample ID: MB 360-74484/1-A
Matrix: Water
Analysis Batch: 74846

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74484

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		0.10	0.10	mg/L		06/01/11 14:37	06/07/11 14:40	1

Method: L107-06-1B - Nitrogen Ammonia (Continued)

Lab Sample ID: LCS 360-74484/2-A
Matrix: Water
Analysis Batch: 74585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74484

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Ammonia	10.0	9.91		mg/L		99	90 - 110

Method: SM 2510B - Conductivity, Specific Conductance

Lab Sample ID: MB 360-74320/1
Matrix: Water
Analysis Batch: 74320

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		1.0	1.0	umhos/cm			05/27/11 08:30	1

Lab Sample ID: LCS 360-74320/2
Matrix: Water
Analysis Batch: 74320

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Specific Conductance	1410	1390		umhos/cm		99	85 - 115

Lab Sample ID: 360-34011-1 DU
Matrix: Water
Analysis Batch: 74320

Client Sample ID: OC-GW-CA1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	630		621		umhos/cm		2	20

DILUTION LOGS

TestAmerica Westfield

Analytical Dilution Preparation Log

Date: 5-27-11

Analyst Initials	Date	Method	LIMs Sample ID	Rpt'd Dil.	Sample Aliquot 1	Units	Final Volume 1	Units	Serial Dilution				Comments
									Sample Aliquot 2	Units	Final Volume 2	Units	
RvE	5.27.11	300.0	340134H13	100X	100	µL	10	mL					
			↓	200X	1	mL	10	mL	500	µL	10	mL	Sample pH >12
			340134H15	10X	1	mL	10	mL					
			↓	50X	200	µL	10	mL					
			↓	200X	1	mL	10	mL	500	µL	10	mL	
			340134K17	10X	1	mL	10	mL					
			340134H9	200X	1	mL	10	mL	500	µL	10	mL	
			↓	500X	1	mL	10	mL	200	µL	10	mL	
			340134H10	200X	1	mL	10	mL	500	µL	10	mL	
			340111C1	10X	1	↓	10	↓					
			↓ C2	10X	1	↓	10	↓					
			340181A1	10X	1	mL	10	mL					pH >11 for Sample
↓	↓	↓	↓	50X	200	µL	10	mL					

entries completed by day [new page each day]

Lab Chronicle

Client: Olin Corporation
Project/Site: Olin Chemical SemiAnnual Groundwater

TestAmerica Job ID: 360-34011-1

Client Sample ID: OC-GW-CA1

Lab Sample ID: 360-34011-1

Date Collected: 05/19/11 09:25

Matrix: Water

Date Received: 05/25/11 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	74297	05/26/11 17:54	TJS	TAL WFD
Total/NA	Analysis	SM 2510B		1	74320	05/27/11 08:30	AMS	TAL WFD
Total/NA	Analysis	300.0		1	74418	05/27/11 20:21	RWE	TAL WFD
Total/NA	Analysis	300.0		10	74418	05/27/11 20:36	RWE	TAL WFD
Total/NA	Prep	Distill/Ammonia			74484	06/01/11 14:37	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		1	74846	06/07/11 15:20	TJS	TAL WFD

Client Sample ID: OC-GW-42S

Lab Sample ID: 360-34011-2

Date Collected: 05/23/11 16:45

Matrix: Water

Date Received: 05/25/11 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Dissolved	Analysis	6010B		1	74297	05/26/11 17:57	TJS	TAL WFD
Total/NA	Analysis	SM 2510B		1	74320	05/27/11 08:30	AMS	TAL WFD
Total/NA	Analysis	300.0		1	74418	05/27/11 20:52	RWE	TAL WFD
Total/NA	Analysis	300.0		10	74418	05/27/11 21:07	RWE	TAL WFD
Total/NA	Prep	Distill/Ammonia			74484	06/01/11 14:37	RWE	TAL WFD
Total/NA	Analysis	L107-06-1B		1	74846	06/07/11 15:21	TJS	TAL WFD

Laboratory References:

TAL WFD = TestAmerica Westfield, Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085, TEL (413)572-4000

Certification Summary

Client: Olin Corporation
TestAmerica Job ID: 360-34011-1
Project/Site: Olin Chemical SemiAnnual Groundwater

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Westfield	Connecticut	State Program	1	PH-0494
TestAmerica Westfield	Florida	NELAC	4	E87912
TestAmerica Westfield	Maine	State Program	1	MA00014
TestAmerica Westfield	Massachusetts	State Program	1	M-MA014
TestAmerica Westfield	New Hampshire	NELAC	1	2539
TestAmerica Westfield	New Jersey	NELAC	2	MA008
TestAmerica Westfield	New York	NELAC	2	10843
TestAmerica Westfield	North Carolina	North Carolina DENR	4	647
TestAmerica Westfield	Rhode Island	State Program	1	LAO00057
TestAmerica Westfield	Vermont	State Program	1	VT-10843

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Login Sample Receipt Checklist

Client: Olin Corporation

Job Number: 360-34011-1

Login Number: 34011

List Number: 1

Creator: Ard, Vanessa L

List Source: TestAmerica Westfield

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brian Gilchrist	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No:
Client Contact: James Cashwell	Phone: 9786586121	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: Olin Corporation		Analysis Requested		Job #: 360-34011
Address: 51 Eames street	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
City: Wilington	TAT Requested (days):			
State, Zip: MA, 01887				
Phone:	PO #: REWI0013			Other:
Email:	WO #:			
Project Name: Olin SemiAnnual Groundwater	Project #: 36001816			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	LACH_107_06_1_B - Ammonia	6010B - Field Filtered Al/Cr	2510B, 300.0_28D Cl/SO4	Total Number of containers	Special Instructions/Note:
			Preservation Code:				S	D	N		
OC-GW-CA1	5-19-11	9:25	G	Water	Y	N	X	X	X	3	MCP
OC-GW-425	5-23-11	1625	G	Water	Y	N	X	X	X	3	MCP
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	
				Water	Y		X	X	X	3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Brian Gilchrist	5/24/11 1540	Mactec	M. C	5/24/11 1540	
2	M. C	5/24/11 1700		V. Ard	5.25.11 1010	
3						

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.2/1.0

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